

2002

**MA334P — COMMUNICATION EQUIPMENT, INCLUDING TELEPHONE,
TELEGRAPH, AND OTHER ELECTRONIC SYSTEMS AND EQUIPMENT
(SHIPMENTS)**

DEFINITIONS AND SPECIAL INSTRUCTIONS

1. Scope of survey

This survey covers the manufacture of all telephone and telegraph apparatus, electronic systems and equipment, and parts in the United States.

2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate report form for each location. If you have not received a separate form for each of your establishments, please call the contact shown on the report form or write to the U.S. Census Bureau.

a. Quantity and value of shipments

The figures on quantity and value of shipments should include the physical shipments of all products sold, transferred to other establishments within your company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to your own branches should be assigned the same value as comparable sales to unaffiliated customers, i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture should not be included in shipments. For some products, the quantity of shipments is not collected.

Shipments should include the following —

Private brand units as well as your own company brand units

Leased machines and equipment — For products leased or rented by your company, report the number and estimated value. The estimate should approximate the value of the products sold outright. If no such basis is available, you may use the valuation placed on these items for tax, insurance, or similar purposes.

Do not include the following —

Products manufactured for you by others

Imports which are reshipped without further domestic manufacture

Your figure should exclude —

Electric wiring devices (should be reported on survey MA335K, "Wiring Devices and Supplies").

Home entertainment electronic equipment, such as home and automobile radio receivers, television receivers, phonographs, hi-fidelity components, consumer audio and video tape recorders, loudspeakers, microphones, ear phones, phonograph cartridges, and public address systems (should be reported on survey MA334M, "Consumer Electronics").

b. Columnar structure of report

When entering your figures on the report, please be sure to report the information in the correct columns as follows:

Section 1

Column 1 — Quantity

Column 2 — Value

Section 2

In this section you are asked to report shipments of communication systems and equipment for each end use (radio station type) by station location. Report total value in column 1. Columns 2 through 5 across will contain a breakout of your total shipments by station location. Data reported in columns 2 through 5 for each item should add to the total in column one.

Column 1 — Total value

Column 2 — Value of space-based (satellite) stations

Column 3 — Value of airborne and marine-based stations

Column 4 — Value of earth (fixed)-based stations

Column 5 — Value of earth (mobile/portable)-based stations

Section 2A

Column 1 — Value

3. Definitions

The product detail for this survey is defined according to CCITT and FCC nomenclature for the industry.

4. Comparability

Data reported in this survey should correspond to data reported in the Economic Census - Manufacturing Sector form. The sum of values for item codes shown in column (a) should correspond to the dollar values reported under product codes indicated in column (b) below:

Current Industrial Reports (Form MA334P)	Economic Census - Manufacturing Sector
Item codes (a)	Product codes (b)
0205 through 0236	3342101 100
0302 through 0342	3342104 100
0351	3344184 100 Pt.
0402 through 0490	3342107 100
1804 through 1838	3342202 100
1867 through 1868	3342903 100
3111 through 3149	3342901 100
3202 and 3222	3342902 100
4416 and 4418	3333197 100
5201 and 5205	3359997 100
5305	335999A 100
5420 through 5435	335999C 100
6503 through 6573	3342201 100

REFERENCE LIST

FORM **MA334P**

COMMUNICATION EQUIPMENT, INCLUDING TELEPHONE, TELEGRAPH, AND OTHER ELECTRONIC SYSTEMS AND EQUIPMENT (SHIPMENTS)

Product code	Item code	Item description
Section 1 — QUANTITY AND VALUE OF SHIPMENTS		
TELEPHONE SWITCHING AND SWITCHBOARD EQUIPMENT		
3342101105	0205	Central office switching equipment:
		Private branch exchange switching equipment (report key systems below in 3342107098):
3342101112	0212	Up to 399 lines
3342101115	0218	400–1,000 lines
3342101117	0222	Over 1,000 lines
3342101121	0224	Cellular mobile telephone switching equipment
3342101123	0228	Packet switching equipment
3342101125	0232	Other telephone switching and switchboard equipment
3342101199	0236	Parts, components and subassemblies for telephone switching equipment
3342101100	0299	Total telephone switching and switchboard equipment (<i>Sum of item codes 0205 to 0236</i>)
CARRIER LINE EQUIPMENT AND MODEMS		
Carrier line equipment:		
3342104102	0302	Repeaters and line transceivers, analog and digital
3342104112	0312	Multiplex equipment, including channel banks, analog and digital
3342104122	0322	All other subscriber loop carrier terminal and line equipment, analog and digital
3342104132	0332	All other carrier line equipment, analog and digital
3342104142	0342	External modems for POTS, ISDN, DSL, PSTN lines transmission (report FAX and/or modem boards for incorporation into computing equipment on form MA334Q, "Electronic Components")
3344184105	0350	External modems for individual PC's
3342104100	0399	Total carrier line equipment and modems (<i>Sum of item codes 0302 to 0351</i>)

REFERENCE LIST — Continued

FORM **MA334P**

Product code	Item code	Item description
Section 1 — QUANTITY AND VALUE OF SHIPMENTS — Continued OTHER TELEPHONE AND TELEGRAPH EQUIPMENT AND COMPONENTS Telephone sets: (Report sets incorporating answering features under "Voice/call and message processing equipment") <i>(Report quantity in units)</i>		
3342107101	0402	Single line and ISDN sets
3342107103	0405	Key sets
3342107105	0409	Public pay telephone equipment
3342107107	0413	Cordless handsets
3342107109	0418	Other telephone sets and accessories (e.g., headsets)
3342107122	0422	Data communications equipment, including routers, gateways, bridges, terminal servers, and concentrators
3342107151	0445	Voice frequency equipment
3342107162	0462	Voice/call message processing equipment, including answering devices
3342107191	0480	Facsimile communication equipment (complete) (report FAX and/or modem boards for incorporation into computing equipment on form MA334Q, "Electronic Components")
3342107197	0488	All other telephone/telegraph equipment, including telephone key systems and teleconferencing equipment
3342107199	0490	Parts, components and subassemblies for other telephone equipment
3342107100	0499	Total other telephone and telegraph equipment and components <i>(Sum of item codes 0402 to 0490)</i>
BROADCAST, STUDIO, AND RELATED ELECTRONIC EQUIPMENT Audio equipment (exclude consumer and P.A. types)		
3342202101	1804	Amplifiers and preamplifiers <i>(Report quantity in units)</i>
3342202104	1807	Control consoles and switchers (Report quantity in units)
3342202109	1809	Other (power supplies, terminal equipment, broadcast recorders, etc.)
3342202113	1813	Video equipment, including amplifiers, television cameras, and tape recorders (exclude consumer and P.A. types)
Transmitters, translators, RF power amplifiers, and related equipment		
3342202121	1820	AM and FM transmitters
3342202124	1822	TV transmitters
3342202127	1824	Other (broadcast transmission line equipment, phasing equipment, TV boosters and repeaters (translators), etc.)

REFERENCE LIST — Continued

FORM **MA334P**

Product code	Item code	Item description
Section 1 — QUANTITY AND VALUE OF SHIPMENTS — Continued BROADCAST, STUDIO, AND RELATED ELECTRONIC EQUIPMENT — Continued		
3342202129	1826	Studio transmission links (STL) and remote pickup equipment Cable TV (Master antennae and CATV equipment) (exclude construction cost)
3342202132	1828	Headend equipment (antennae baluns, carrier generators, headend control units, single and broadband preamplifiers and strip amplifiers, converters, modulators and demodulators; splitting and mixing networks, FM processing equipment, filters and traps, power supplies, switches, etc.)
3342202138	1831	Subscriber equipment (decoders, switchers; wall outlet taps; distribution amplifiers; power supplies; directional couplers, splitters, alternators, and equalizers)
3342202141	1832	Broadcasting transmitting antennae and community antennae systems
3342202144	1833	Closed circuit television systems and equipment, including specially designed cameras, monitors, video recorders, receivers, scan converters, and control consoles (exclude broadcast and consumer products)
3342202147	1834	Other broadcast, studio, theater, and commercial sound equipment, sold separately (exclude studio lighting equipment, radiating and supporting towers)
* 3342202149	1835	Home antenna
* 3342202153	1836	Auto antenna
3342202199	1838	Parts and accessories for broadcast, studio and related electronic equipment, sold separately
3342202100	1839	Total broadcasting, studio, and related electronic equipment (<i>Sum of item codes 1804 to 1838</i>)
INTERCOMMUNICATIONS SYSTEMS, INCLUDING INDUCTIVE PAGING SYSTEMS (SELECTIVE CALLING)		
3342903101	1867	Wired
3342903103	1868	Nonwired
3342903100	1871	Total intercommunication systems (<i>Sum of item codes 1867 and 1868</i>)
ALARM SYSTEMS		
Intrusion detection		
3342901101	3111	Local
3342901201	3115	Central station
3342901601	3119	Direct connect
3342901603	3121	Hold-up systems (commercial and industrial)
3342901605	3125	Automotive

* New for 2002

REFERENCE LIST — Continued

FORM MA334P		
Product code	Item code	Item description
		Section 1 — QUANTITY AND VALUE OF SHIPMENTS — Continued
		ALARM SYSTEMS — Continued
		Fire detection and prevention
3342901301	3131	Smoke and heat detection alarms:
3342901401	3135	Ionization chamber type
3342901607	3139	Other, including photo cell type
3342901501	3145	Central station
3342901609	3149	Direct connect
		Other intercommunication and alarm systems, including electric sirens, and horns (marine, industrial and air raid) security locking systems
3342901100	3199	Total alarm systems (Sum of item codes 3111 to 3149)
		VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL EQUIPMENT, ELECTRICAL RAILWAY SIGNALS AND ATTACHMENTS
3342902102	3202	Vehicular and pedestrian traffic control equipment
3342902202	3222	Railway signals and attachments, electric
3342902100	3229	Total vehicular pedestrian traffic control equipment, electric railway signals and attachments (Sum of item codes 3202 to 3222)
		ELECTRONIC TEACHING MACHINES, TEACHING AIDS, TRAINERS AND SIMULATORS
3333197101	4416	Electronic trainers and simulators
3333197104	4418	Other electronic teaching machines and teaching aids
3333197100	4419	Total electronic teaching machines, teaching aids, trainers and simulators (Sum of item codes 4416 and 4418)
		LASER SOURCES
3359997101	5201	Nondiode lasers
3359997138	5205	Diode Lasers (categorized by wavelength)
3359997100	5290	Total laser sources (Sum of item codes 5201 and 5205)

REFERENCE LIST — Continued

FORM MA334P		
Product code	Item code	Item description
335999A100	5305	Section 1 — QUANTITY AND VALUE OF SHIPMENTS — Continued ULTRASONIC EQUIPMENT, N.E.C.
335999C101	5420	OTHER ELECTRONIC SYSTEMS AND EQUIPMENT N.E.C. Consumer electronic equipment n.e.c.
335999C105	5425	Scientific electronic equipment n.e.c.
335999C111	5430	Industrial electronic equipment n.e.c.
335999C115	5435	All other electronic equipment n.e.c.
335999C100	5439	Total other electronic systems and equipment n.e.c. (Sum of item codes 5420 to 5435)
3342201301	6503	Section 2 — SHIPMENTS OF COMMUNICATIONS SYSTEMS AND EQUIPMENT EQUIPMENT BY RADIO STATION TYPE AND STATION LOCATION Radio Station Type Amateur
3342201307	6512	Meteorological
3342201101	6515	Fixed
3342201311	6521	Telecommand
3342201313	6524	Telemetry
3342201315	6527	Radionavigational and locational
3342201317	6530	Aeronautical communications Mobile:
3342201202	6531	Cellular system equipment analog and digital (report switching equipment in 3342101021)
3342201207	6536	Other conventional and trunked system equipment
3342201209	6539	Other mobile
3342201319	6543	All other radio station equipment, including broadcast, Earth exploration, and intersatellite

REFERENCE LIST — Continued

FORM MA334P		
Product code	Item code	Item description
3342201401	6545	Section 2A — SHIPMENTS OF COMMUNICATIONS SYSTEMS AND EQUIPMENT
3342201405	6548	Checkout, monitoring, evaluation and other electronic support equipment for communications systems
3342201407	6551	Antenna systems, sold separately: Below 890 MHZ 890 MHZ and above
3342201415	6565	Fiber optics equipment: (exclude connectors, cable, photodiode and laser diode components, microwave equipment, and multiplexors)
3342201419	6567	Equipment meeting SONET standards:
3342201421	6570	Equipment not meeting SONET standards
3342201425	6573	Other carrier equipment, not elsewhere classified
3342201425	6573	Other communications systems and equipment
3342201100	6599	Total communications systems and equipment (<i>Sum of item codes 6503 to 6573</i>)
SELECTED NONMANUFACTURING REVENUES OF THIS ESTABLISHMENT		
4216900000	9940	Supplies and accessories shipped without further manufacture, for use with communication equipment
9999980000	9950	Research and development, testing and evaluation of systems and components
5410000000	9960	Software sold with communications systems shipped by manufacturers
5415120000	9970	Systems integration revenues, including configuration, installation and site preparation, and custom programming
5415190000	9980	Other nonmanufacturing revenues associated with computer systems

1/21/03